

CLAIMS

I claim:

1 1. An add-on safety harness for a vehicle seat having a lap belt comprising:
2 an elongated main seat anchor strap having a snap-on buckle on one end and a buckle tongue
3 on an opposite end; and
4 a pair of shoulder harness straps extending from opposite sides of said anchor strap at an acute
5 angle, each said shoulder harness strap having a proximate end attached to said anchor strap and a
6 distal end ending in a loop; and
7 length adjustment means for adjusting the length of each said shoulder strap;
8 whereby one end of a conventional lap belt is threaded through said loops of the shoulder
9 harness straps to secure a passenger and the adjustment means being used to adjust the length of said
10 shoulder harness straps.

1 2. The add-on safety harness according to claim 1, wherein said length adjustment means
2 comprises an adjuster disposed medially on each shoulder strap.

1 3. The add-on safety harness according to claim 2, further including a strip of soft
2 material having hook and loop fastening material attached to each said adjuster for surrounding each
3 said adjuster device.

1 4. The add-on safety harness according to claim 1, further including a pair of leg harness
2 straps extending from opposite sides of said anchor strap at an angle, each said leg harness strap
3 having a proximate end attached to said anchor strap and a distal end ending in a loop, and said loops
4 of said leg straps positioned so as to have said loops of said shoulder harness straps disposed
5 therebetween.

1 5. The add-on safety harness according to claim 1, further including a pair of leg harness
2 straps extending from opposite sides of said anchor strap at an angle, each said leg harness strap
3 having a proximate end attached to said anchor strap and a distal end ending in a loop, and said loops
4 of said leg straps positioned so as to be disposed between said loops of said shoulder harness straps.

1 6. The add-on safety harness according to claim 1, further including an additional strap
2 member having a first end, a second end, a first mating fastener part coupled to said first end, a second
3 mating fastener part coupled to said second end, and at least one adjuster for adjusting the length of
4 said additional strap;

5 wherein said additional strap member is disposed around the pair of harness straps for
6 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
7 vehicle.

1 7. The add-on safety harness according to claim 1, further including an additional rigid
2 member having a first portion, a second portion, a first mating fastener part coupled to said first
3 portion, a second mating fastener part coupled to said second portion;

4 wherein said additional rigid member is disposed around the pair of harness straps for
5 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
6 vehicle.

1 8. An add-on safety harness for vehicles having at least a lap belt and an anchor point,
2 comprising:

3 a seat anchor strap having a first end and a second end, a clip-on fastener coupled to said first
4 end;

5 a pair of harness straps extending from said second end, and extending from opposite sides of
6 said anchor strap at an angle, each said harness strap having a length, a proximate end fixedly attached
7 to said anchor strap and a distal end ending in a loop, whereby forming an inverted Y-shape; and

8 an adjustment device, disposed on each harness strap, designed and configured to adjust the
9 length of each said harness strap;

10 wherein said clip-on fastener is releasibly attached to an anchor point of the vehicle; one end
11 of a lap belt of the vehicle is threaded through said loops of said harness straps, whereby a passenger
12 is secured into the vehicle seat, and said adjustment device is used to adjust the tension length of said
13 harness straps.

1 9. The add-on safety harness according to claim 8, further including a strip of soft
2 material having hook and loop fastening material attached to each said harness strap, in proximity to
3 each adjustment device, said strip of soft material releasibly surrounding each said adjuster device.

1 10. The add-on safety harness according to claim 8, further including an additional strap
2 member having a first end, a second end, a first mating fastener part coupled to said first end, a second
3 mating fastener part coupled to said second end, and at least one adjuster for adjusting the length of
4 said additional strap;

5 wherein said additional strap member is disposed around the pair of harness straps for
6 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
7 vehicle.

1 11. The add-on safety harness according to claim 8, further including an additional rigid
2 member having a first portion, a second portion, a first mating fastener part coupled to said first
3 portion, a second mating fastener part coupled to said second portion;

4 wherein said additional rigid member is disposed around the pair of harness straps for
5 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
6 vehicle.

12. An add-on safety harness kit for vehicle seats having at least a lap belt comprising:
an anchor strap having a first end and a second end, a clip-on fastener coupled to said first end;
a pair of harness straps extending from said second end, and extending from opposite sides of
said anchor strap at an angle, each said harness strap having a length, a proximate end fixedly attached
to said anchor strap and a distal end ending in a loop, whereby forming an inverted Y-shape;
an adjustment device, disposed on each harness strap, designed and configured to adjust the
length of each said harness strap; and
hardware for adapting a portion of a vehicle to define an anchor point, said hardware including
at least a bolt, a first washer, an angled plate having an eyelet and a bolt hole, a second washer, and
a nut, said angled plate being mounted to the vehicle using said bolt through said bolt hole, said first
washer, said second washer, and said nut;
wherein said clip-on fastener is releasibly attached to said eyelet of said angled plate; one end
of a lap belt of the vehicle is threaded through said loops of said harness straps, whereby a passenger
is secured into the vehicle seat, and said adjustment device is used to adjust the tension length of said
harness straps.

13. The add-on safety harness kit according to claim 12, further including a strip of soft
material having hook and loop fastening material attached to each said harness strap, in proximity to
each adjustment device, said strip of soft material releasibly surrounding each said adjuster device.

1 14. The add-on safety harness kit according to claim 12, further including an additional
2 strap member having a first end, a second end, a first mating fastener part coupled to said first end,
3 a second mating fastener part coupled to said second end, and at least one adjuster for adjusting the
4 length of said additional strap;

5 wherein said additional strap is disposed around the pair of harness straps for maintaining the
6 pair of harness straps in a proximal position about the chest of the passenger of a vehicle.

1 15. The add-on safety harness according to claim 12, further including an additional rigid
2 member having a first portion, a second portion, a first mating fastener part coupled to said first
3 portion, a second mating fastener part coupled to said second portion;

4 wherein said additional rigid member is disposed around the pair of harness straps for
5 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
6 vehicle.

1 16. The add-on safety harness kit according to claim 12, wherein said clip-on fastener is
2 fixedly attached to said first end of said anchor strap.

1 17. The add-on safety harness kit according to claim 12, wherein said clip-on fastener is
2 slidably attached to said first end of said anchor strap, wherein the length of the anchor strap is
3 adjustable.

1 18. The add-on safety harness kit according to claim 12, wherein said hardware is mounted
2 to a sure frame component of the vehicle seat.

1 19. The add-on safety harness kit according to claim 12, wherein said hardware is mounted
2 to a sure frame component of the vehicle floor, beneath the vehicle seat.

1 20. The add-on safety harness kit according to claim 12, wherein said hardware is mounted
2 to a sure frame component of the vehicle body behind the vehicle seat.